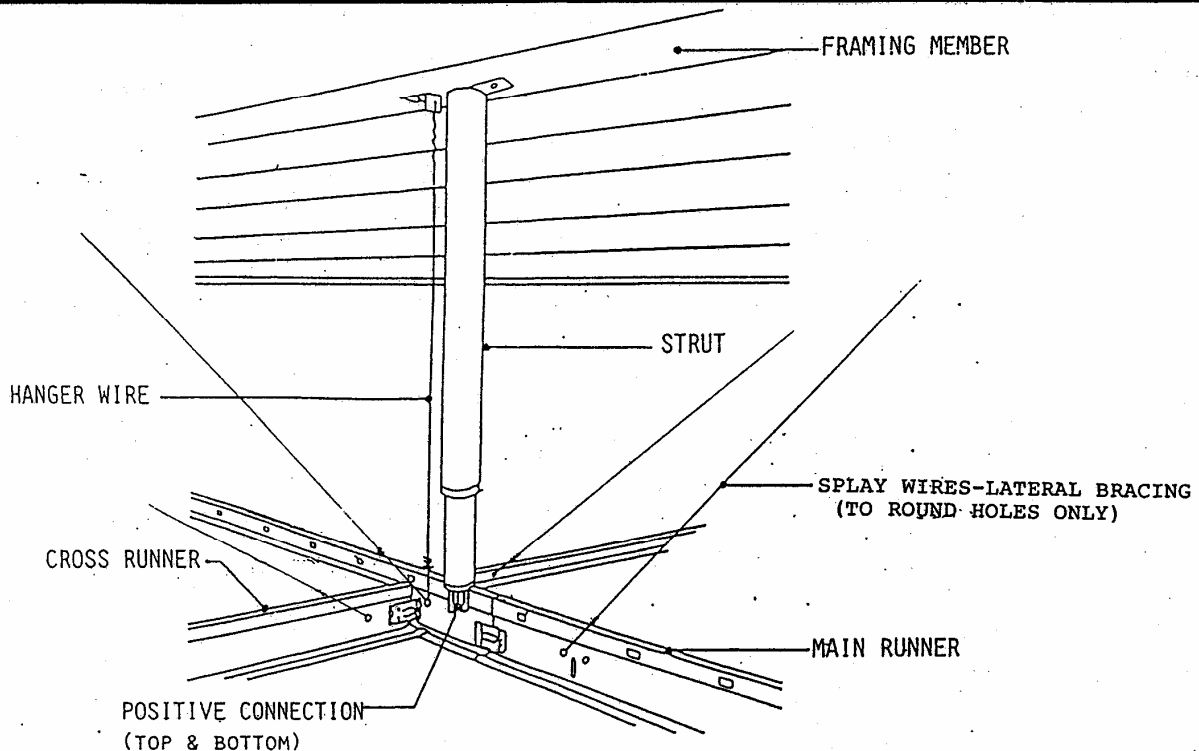


SUSPENDED ACOUSTIC CEILINGS



INSTALLATION AND SEISMIC REQUIREMENTS

VERTICAL HANGERS: Suspension wires shall not be smaller than #12 gauge spaced at not more than 4' o.c. or #10 gauge wires at 5' o.c. along each main runner. Each vertical wire shall be attached to the structure above and to the suspension member with a minimum of 3 turns in the first inch. Suspension wires shall not be more than 1 in 6 out of plumb unless counter sloping wires are provided.

PERIMETER HANGERS: The terminal ends of each main runner and cross runner shall be supported independently a maximum of 8" from each wall or ceiling discontinuity.

PERIMETER MEMBERS: Unless perimeter members are a structural part of the system, wall angles or channels shall be considered as aesthetic closures and shall not be used as support members. Ends of main and cross runners shall be connected to prevent spreading.

ATTACHMENT OF MEMBERS TO THE PERIMETER: Main and cross runners may be connected to two adjacent walls with clearance provided between the walls and runners at the other walls.

LATERAL BRACING: Horizontal restraints shall be provided by four #12 wires secured to the main runner within 2" of the cross runner and played at 90° to each other at an angle not to exceed 45° from the plane of the ceiling. A strut shall be provided adequate to resist the vertical force of the bracing wires. Struts and horizontal restraints shall be spaced at 12' maximum in both directions beginning at 6' from each wall. Lateral force bracing shall be spaced a minimum of 6" from all horizontal pipes and ducts that are not braced to prevent movement.

LIGHTING FIXTURES: Only intermediate and heavy ceiling systems may be used to support lighting fixtures. Lighting fixture weighing less than 56 pounds shall have two #12 wires attached to opposite corners within 3" of the corners on each fixture. Tandem fixtures may use common wires. These wires may be slack. Lighting fixtures weighing more than 56 pounds shall be supported directly from the structure above. Pendent hung fixtures shall be supported directly from the structure above with a #9 wire or other approved support independent from the ceiling system. Fixtures shall be securely fastened to the runners by screws, bolts or rivets. Clips may be used when specified by the manufacturer.

MECHANICAL SERVICES: Ceiling mounted air registers weighing less than 20 pounds shall have a positive connection to the main runners or to the cross runners which have the same carrying capacity as the main runners. Registers weighing more than 20 pounds but less than 56 pounds shall have, in addition to the above requirements, two #12 wires attached at opposite corners within 3" of the corner on each register. These wires may be slack. Registers weighing more than 56 pounds shall be supported directly from the structure above by approved hangers.

REF: UBC STANDARD 25-2



PLACER COUNTY
BUILDING DEPARTMENT
AUBURN, CALIFORNIA

2001 CALIFORNIA BUILDING CODE
UBC STANDARDS - CHAPTER 25.

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